

Attorney Docket Number 2000.611 US PD

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OCT 30 2003

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In re Application of:

Joens, Lynn A.

Serial No.: 09/677,108

Group Art Unit: 1645

Filed: September 29, 2000

Examiner: R. Zeman

For: IMPROVED VACCINES FOR PROLIFERATIVE ILEITIS AND METHODS  
OF MAKING AND USING THE SAME

Amendment

Commissioner of Patents  
Alexandria, VA 22313

October 30, 2003

Dear Sir,

In reply to the Office Action of May 30, 2003,  
please enter the amendments that follow.

Submitted herewith is a petition and fee to  
extend the date for responding by two months to October 30,  
2003.

In the Specification

Please amend the first paragraph on page 10 as  
follows:

mineral oils such as Drakeol and Montanides; vegetable oil such as peanut oil; block co-polymers; aluminum salts such as aluminum hydroxide and aluminum phosphate; poxvirus proteins such as Baypamun; Avridine; Lipid A; triterpenoid glycosides such as saponin, Quil A, and QS21; detergents such as Tween-80, Span 20 and Pluronic; interleukins such as monokines and interferons; liposomes ISCOMS; synthetic glycopeptides such as muramyl dipeptides and derivatives of cholera toxin, or combinations of the above. Preferred adjuvants for use with fragile organisms such as *L. intracellularis* include but are not limited to ~~POLYGEN™~~, ethylene maleic anhydride type adjuvants, ethylene maleic acid polymers, CARBIGEN® (a high molecular weight copolymer), HAVLOGEN® (a cross linked acrylic acid polymer), EMULSIGEN® (an oil-in-water emulsion), POLYGEN™ (a low molecular weight copolymer), synthetic glycopeptides such as BAY R1005, certain aluminum salts, immunomodulators, toxins and combinations thereof. Such preferred adjuvants are selected on the basis of their lack of toxicity and lack of presence of detergents, which tend to disrupt fragile organisms and immunogens.